

**REAL-TIME AUDIO SOURCE SEPARATION BY
DELAY AND ATTENUATION COMPENSATION IN THE TIME DOMAIN**

Abstract of the Disclosure

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A system is provided for separating two audio channels recorded by an array of microphones. The system includes a calibration module for normalizing gain levels between a plurality of channels on each of a plurality of data frames, wherein each data frame is expressed in terms of time. The system further includes a delay parameter estimation module for accepting an output comprising the normalized channels, and estimating a delay parameter for a plurality of data frame sizes over a plurality of lag times, and sorting delays to generate corresponding source separated outputs.

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